(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 30 October 2003 (30.10.2003)

PCT

(10) International Publication Number WO 03/088951 A1

(51) International Patent Classification7: 31/192, 38/13

A61K 9/14,

(21) International Application Number: PCT/AU03/00453

(22) International Filing Date: 15 April 2003 (15.04.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

PS 1744 2003901180

15 April 2002 (15.04.2002) AU 12 March 2003 (12.03.2003) ΑU

(71) Applicant (for all designated States except US): EIFFEL TECHNOLOGIES LIMITED [AU/AU]; Level 14, 50 Market Street, Melbourne, Victoria 3000 (AU).

(72) Inventors; and

(75) Inventors/Applicants (for US only): FOSTER, Neil, Russell [AU/AU]; 9 Golden Grove, Cherrybrook, New South Wales 2126 (AU). REGTOP, Hubert, Leonardus [AU/AU]; 18 Murchison Street, Mittagong, New South Wales 2575 (AU). DEHGHANI, Fariba [AU/AU]; 8/83 Dalmeny Avenue, Rosebery, New South Wales 2018 (AU). TANDYA, Andrian [ID/AU]; c/- School of Chemical Engineering and Industrial Chemistry, University of New South Wales, Sydney, New South Wales 2052 (AU).

- (74) Agent: FREEHILLS CARTER SMITH BEADLE; Level 43, 101 Collins Street, Melbourne, Victoria 3000 (AU).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, Cl, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FORMULATION OF FINE PARTICLES USING LIQUEFIED OR DENSE GASES

(57) Abstract: The invention provides a method for manipulating or formulating a solid substance which melts under pressure of a gas without degrading at a temperature lower than the melting point of the substance at atmospheric pressure including: applying to the substance a liquefied gas or dense gas to melt the substance without degrading the substance; then contacting the molten substance with a carrier fluid, which is at substantially the same pressure as the liquefied gas or dense gas, to form a solution or mixture of at least a part of the molten substance and the carrier fluid; and passing the solution or mixture into a vessel of lower pressure than the pressure of the liquefied gas or dense gas and carrier fluid to form particles of the substance; and particles formed by the method.